



Questionnaire will help in planning a University-Wide CUG Committee

The Commission on University Government Programming Committee has drafted plans for the next phase of its effort. It proposes both to focus to a major extent on the top governing structure of the University and to effect ways and means of ensuring that any recommendations for change in this direction should carry with them a broad degree of support in the various parts of the University.

In a letter signed by the secretary, Robin Ross, the Committee noted that its efforts to encourage wide and intensive discussion of the CUG Report have met with a good deal of success in the last few months. In brief it now plans:

(a) to continue the general educational program, focusing on the top governing structure;

(b) to devise a questionnaire to test faculty and student opinion on the top governing structure; and

(c) to establish a large University-Wide Committee which will hopefully be able to speak as the voice of the University on the governing structure that the University wishes the Province to enact.

The Committee envisages its future activities in each of these three areas as follows:

(a) As part of the continuing educational program, the Committee will sponsor a debate on the top governing structure. In addition, the Committee intends to sponsor other sessions on specific aspects of the CUG Report and will continue to encourage debate at all levels and in all areas of the University as well as written debate in the *Bulletin* and *The Varsity*.

(b) To test opinion on the broad issues connected with the top governing structure the Committee is at present developing a questionnaire under the guidance of the Department of Sociology. It plans to mail the questionnaire to the faculty, returnable in early March. The questionnaire will also be distributed to graduate and undergraduate students by means of *The Varsity*, returnable by early March at various designated places throughout the University. Faculty and student results will be analyzed and published separately. The ATS, GSU, and SAC may, if they wish, for their own information, add additional questions on other issues.

(c) As the final stage of its work the Committee envisages the assembling of a University-Wide Committee as originally suggested November 14. Elections should take place to this UWC after the results of the questionnaire have been published (about the second week in March); and the questionnaire, it is planned, will include a question or questions designed to solicit faculty and student viewpoints on the composition and procedures for the UWC, which the Committee envisages as follows:

(i) Composition

The University-Wide Committee could be composed as follows:

(I) 40 students: 27 undergraduate students, 9 graduate students, and 4 part-time degree students. The undergraduate students to be elected from special constituencies established according to population. Two graduate students to be elected from each of

CUG Public Meeting & Debate in Hart House January 28

The CUG Programming Committee announces a Public Meeting on the Top Governing Structure in the Debates Room, Hart House on Wednesday, January 28, from 1 p.m. to 3 p.m.

Guest panelists will be:

Prof. J. H. G. Crispo, Centre for Industrial Relations

Prof. C. M. T. Hanly, Department of Philosophy & Ethics

Ken McEvoy, University Government Commissioner, SAC

Bob James, Finance Commissioner, SAC

All members of the University community are invited to attend and to take part in the discussion.

the 4 graduate divisions with one additional graduate student from divisions I and II. The part-time degree students to be chosen by their student association.

(II) 40 faculty: elected from special constituencies of the University established according to population.

(III) 40 administration: 20 academic administrators, 5 non-academic senior administrators and 15 support staff. The academic administrators to be elected from amongst such persons as academic Vice-Presidents, Deans, Directors, and heads of Colleges. The support staff and non-academic administrators to be elected from amongst their respective numbers.

(IV) 40 other delegates: 10 members of the Board of Governors (chosen from amongst their number); 20 alumni representatives (selected by the U of T Alumni Assoc.); the President or designate of the ATS, GSU, SAC and

APUDS (Association of Part-time Undergraduate Degree Students); 6 other representatives from the non-University, non-alumni components of the Senate (e.g., representatives from professional associations and secondary schools).

The exact composition within the above groups would be worked out by the Programming Committee; and election procedures would be acceptable to and supervised by the Programming Committee. Faculty and student nominations for the University-Wide Committee would close about mid-March. Election ballots mailed to the faculty would be returnable by the end of March and polling booths for student elections would be set up throughout the University for a number of days at the end of March.

(ii) Procedure

The University-Wide Committee could
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FORUM ON CUG

This new activity is in response to the CUG Programming Committee's call for a written debate on the CUG Report. The Committee invites members of the University Community, academic and non-academic, to submit *brief statements concerning any of the issues raised in the CUG Report*. These should be addressed to the Editor of the *Bulletin* or the Editor of *The Varsity*. Both periodicals are co-operating in the Committee's important effort to stimulate discussion. Material submitted to one paper will be made available to the other, unless the writer specifically requests that it appear in only one paper.

D. V. Anderson

It makes strange reading that so much deliberation so far has been about the administrative structure rather than the purposes of the University. Once the priorities of the latter are confirmed or adjusted, the prescription of structure is an exercise in meeting the purposes as easily and fairly as possible.

There are general tests or requirements of any effective organization given certain specified tasks. The first rule of organization is that patterns of communication, responsibility, and control must be simple. If you cannot remember the outline of an organization at first reading, you may be sure it is unnecessarily complicated. The plethora of councils and votes, etc. per the CUG recommendations, for an organization of only some 30,000 souls, most of them being engaged in individual rather than collective effort, is obviously deficient in meeting this primary test.

The next test is to see if the three elements necessary to carry out the jobs of the University are available at every level: i.e. authority, men, and money. (Since authority now has a double meaning I must anticipate objection to the

term by defining it as the ordinary freedom to make the legitimate decisions necessary to carry out a task.) There is now no lack overall of any of the three at the Department (Faculty) level sufficient to excuse a really poor performance, although a reallocation of resources clearly may be beneficial here and there. At the senior levels, authority has been eroded and should be restored.

We can return to the generally accepted purposes: teaching, research, counsel (on public policy for instance), consulting (on specific projects), and provision of a cultural environment for students and a cultural repository for society. The tactical implementation of all these assignments requires modification. For instance, if mass production teaching now truly is to be taken more seriously we need many more teaching assistants and secretaries to prepare hand-out materials, to help with tutorials and to carry out other mechanical features of efficient teaching. Some Departments such as the Faculty of Dentistry are realizing the importance of troops as well as officers.

Purposive research with an utilitarian
(See page 3, col. 1)

Next Senate CUG debate is Jan 27

The omission from the Commission on University Government report of the full dissenting report prepared by the CUG alumni representatives and the comparative worth of unicameral and bicameral top governing structures were the principal topics discussed at a special meeting of the Senate last week.

This was the first of a series of meetings the Senate has planned for consideration of the CUG report. A steering committee recommended that Senate direct its attention to four major areas in the report, the first of which, "The nature and powers of the Governing Council", was the theme of the initial special session.

John H. Sword, Executive Vice-President (Academic) and Provost, who presided, asked at the outset for the views of the Senate on the dates for subsequent special meetings on the CUG report. He suggested that resolutions be withheld until all the discussions had taken place.

Prof. Stefan Dupré, director, Centre for Urban and Community Studies, said he was surprised and even "appalled" by the poor attendance. About 60 persons were in the Senate chamber at the time, including nine members of CUG and half a dozen observers. The membership of the Senate at full strength is 199. Prof. Dupré suggested that another special meeting not be scheduled until after the next regular meeting. At the regular meeting, he said, absentees from the special meeting might be "exhorted" to turn out in future. However, as the next regular meeting is not until Feb. 13, Senate decided to hold a second special CUG hearing on Tuesday Jan. 27 at 8.15 p.m. in the Senate Chamber, Simcoe Hall.

The discussion on this occasion will centre on topics 3 and 4, the Role of the Constituent and Federated Colleges and the Role of the President respectively. Reading material covering these discussions
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Policy stands that Placement open to all

The Advisory Committee to the Placement Service has reaffirmed its policy of making the facilities of the Career Counselling and Placement Centre available to all companies desiring to use them. The policy was adopted two years ago and has now been reaffirmed three times since then.

The question of accessibility was on the agenda of the Committee meeting of Jan. 20 after the Committee to End the War in Viet Nam asked the Students' Administrative Council to support demonstrations against the presence of representatives of the Honeywell company on the St. George Campus to recruit students this week. *The Varsity* reported that the SAC executive had declined to support the protests but asked the Placement Service Advisory Committee to reopen the matter of recruitment by Honeywell.

After some debate, a student member of the Advisory Committee, Donald Kendall, seconded by Allan Wilson, an alumni representative, moved that the discussion be closed until the Committee was more representative and that the
(See page 4, col. 1)

JANUARY 29 DEADLINE

University of Toronto Bulletin is published by Department of Information, Room 225, Simcoe Hall. All material for the next issue should be in the hands of the editor, Mrs. Winogene Ferguson (928-2102) by noon on the 29th January.

60 at first Senate debate on CUG Report

Second hearing to be held January 27

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sions is outlined in the recommended readings for the CUG Senate discussions (Chapter 11, The Colleges; Chapter 12, the Governing Structure).

(On February 15, as part of the regular Senate agenda, discussion on the CUG Report will continue and will then include all four major topics as outlined in the Report from the Steering Committee to the Senate.)

At the special meeting held last week Mr. Sword said that the co-chairmen of CUG, Prof. Lawrence Lynch, and Gary Webster, a graduate student, had been invited to lead the discussion. Mr. Webster, however, was ill and Prof. Lynch made the opening statement. In addition to the co-chairman, other members of CUG present were President Claude Bissell, Prof. Bernard Etkin, Prof. James Thompson, William B. Harris, non-voting representative of the Board of Governors; Robert L. Hicks, non-voting alumni representative, and his alternates, Ronald McKinlay, Mrs. M. W. McCutcheon, and Mrs. Ruth Peters.

In his statement, Prof. Lynch told the Senate that CUG had not been "conceived as an infallible instrument", although it had been described as something between the Sermon on the Mount and the Treaty of Versailles. He reminded his audience that the Treaty of Versailles, which was supposed to bring peace, had led to the events of 1939. Problems existed at the University, problems which CUG did not create, he said, and they would continue until they were dealt with. Such organizations as the Association of the Teaching Staff had listed problems years ago. Among them he mentioned the fact that members of the teaching staff were not full members of the Board of Governors; the problems of planning and priorities—ATS had asked for a voice in determining priorities; formula financing, which could lead to increased governmental control over the University; the Presidency—Prof. Lynch said he was personally convinced that the University of Toronto had survived its difficulties only because of the skill and determination of Dr. Bissell; internal discipline—the whole matter of behaviour in general; and the future relationships of the federated colleges with the University and the development of the new constituent colleges.

Prof. Lynch said there had been public criticism of CUG for not having published in full in its report the minority report of the alumni representatives on the Commission. He then read the dissenting statement in its entirety. Prof. James Smith asked why the alumni report had not been carried in full with the majority report, and Prof. John Crispo, an observer, asked if the graduates had been under pressure to accept a condensed version for publication.

Mr. Hicks explained that the alumni representatives, having disagreed with their voting colleagues on certain aspects of the final report, had prepared a dissenting statement. This not having been satisfactory to the majority, a second version was prepared. This in turn had been changed in its wording. The alumni members of CUG, Mr. Hicks said, would not agree to the publication in the report of a statement in which the words of others than themselves had been inserted. They accordingly decided to have published as an appendix a brief statement covering the points on which they agreed with the majority and a list, without explanation, of the issues on which they disagreed.

Dr. Bissell was the first speaker on the subject of the nature and powers of the Governing Council. He reviewed some of the problems facing the University: the nature of the University as a seat of learning; financing, which he said was more than housekeeping and more than just an accounting of funds—the University must be more imaginative and more adventurous in its attitude toward financing; the determination of the laws under which the University would be governed.

Turning to the dispute over the rela-

tive merits of a bicameral governing structure and a unicameral system, he said that if attempts were made to maintain the present structure of Senate and Board of Governors and at the same time make them more effective, "you will intensify the internal conflict between the two top bodies". He suggested that this had happened at McGill University.

Although a single Governing Council "does not hold the answer to all our problems", the President said he favoured "the general contours" of the one proposed by CUG. The University of Toronto in the 70s and the 80s "will need to know its own mind" and, he concluded, "we need a new centre of authority and we need it now".

Dr. Ernest Sirluck, Vice-President and Graduate Dean, said that he originally had favoured maintaining two top governing bodies, as a means of preserving academic integrity. After holding that view for a year, he had changed his mind, having become convinced that it was necessary to combine the two. He

could see situations wherein there would be demands for action before determining whether or not it was financially feasible, and he could see calls for capital investment before there was proper academic planning.

Dr. Sirluck disputed a statement made in the CUG report (Page 41): "Financial independence is guaranteed by the formula system of awarding operating and (soon) capital grants . . ." There could be no such guarantee, he said. In fact, he could foresee a possibility whereby financial aid might be reduced in the years ahead. To this, Prof. Lynch and Prof. Etkin protested that the statement should not be considered out of context, that it should be read in relation to the historical background, having to do with the University of Toronto Act of 1906, which preceded the comment in the report.

The Graduate Dean concluded by advocating a unicameral Governing Council on which there would be "one more than a majority of lay members".

Minority Report of non-voting graduate delegates on CUG

The following statement by the non-voting member and alternates representing the graduates on CUG was read to the Senate by Prof. Lawrence Lynch at its special meeting last week:

"During the lengthy deliberations leading to the writing of this Report, the graduate representatives participated freely in the discussions. However, as we had no voting rights, we have been given this opportunity to summarize our views of the Report, and thereby outline those aspects which we strongly support, and at the same time record some of the aspects with which we disagree. The voting members have required that this statement be brief and that it exclude any substantial supporting argument.

"We endorse many of the important recommendations contained in the Report, particularly those related to:

"1. The creation of one Governing Council which will combine the powers now vested in the Board of Governors and the Senate (i.e., the unicameral form of government).

"2. The decentralization of authority and responsibility to the major organizational units within the University.

"3. Greater participation by elected faculty and students in the governing and academic administration of the University.

"4. A very simple revised Act which will permit flexibility for future internal change, provided that the Governing Council has a satisfactory composition.

"However, there are some extremely important sections of the Report with which we are in fundamental disagreement, namely:

"1. The composition of the Governing Council

"The Report recommends a Governing Council of 66 members comprised of 20 elected faculty, 20 elected students, the President, 1 representative of the constituent universities, 4 appointed by the President, 10 appointed by the Government, and 10 elected by the graduates.

"In our view this composition is weighted far too heavily toward elected faculty and elected students who may lack the experience and management competence required to administer an institution of the size and complexity of the University of Toronto, whose annual operating budget, before provision for capital expenditures, exceeds \$100,000,000. In view of the vagaries of the election process, there is no assurance that an adequate number of senior academic administrators (i.e., presidents of the constituent Universities, academic vice-president, and senior deans of faculties), will be members of the Governing Council.

"As the Province provides more than two-thirds of the University's funds, and as the community at large is vitally concerned with the well-being of the institution, which is of major importance to our society, we believe Government appointees should be at least equal in number to those generated by staff or students.

"We believe that continued support from the 100,000 graduates, who now elect 56 of the 196 members of the Senate, will be related to the degree of their involvement in the decision making processes of the University; and considering the substantial and varied talents they have to offer, they should be represented equally with the elected faculty and elected students as members of the Governing Council.

"If the Governing Council is limited to 66 members—and we feel that it should be no larger—we recommend that it be comprised of the President, with the remaining members divided equally between elected faculty, elected students, senior academic administrators, government appointees and elected representatives of the graduates.

"This composition would still permit ultimate control of the University to be held internally, an objective to which faculty and student members of the Commission seemed particularly dedicated, and would also assure a better balance of interests, experience and competence on the Governing Council.

"2. "Composition of the Executive Committee

"The proposed executive committee of 10 members, which is a very important body, reflects the composition of the Governing Council, and therefore, in our view, contains the same weaknesses.

"3. "Restriction of Powers of Academic Administrators

"We disagree with the proposed diminution of the powers of the academic administrators. These restrictions may discourage desirable persons from accepting academic administrative appointments at the University of Toronto.

"4. "The Chancellor

"In recent times the Chancellors selected by the existing process have served the University well, and there do not appear to be compelling reasons for effecting any change in the role or in the method of selection—election by representatives of the graduates.

"In conclusion, we should like to say that it has been a privilege to be included in this hard-working committee, dedicated to such an important task. We indeed hope that the Report will initiate changes needed to maintain the excellence of the University of Toronto."

Questionnaire to help shape new committee

(Continued from page 1)

meet to discuss, and hopefully to resolve, the question of the top governing structure of the University towards the end of May, perhaps for two days. If necessary, further meetings could be arranged for the Fall and in this connection machinery for filling vacancies would be set up in advance by the Programming Committee. The results of the deliberations of the University-Wide Committee would be given to the President for submission to the Province as the voice of the University.

To facilitate the effective functioning of the University-Wide Committee, a Steering Committee made up of 2 members from each of the first 3 groups set out above (students, faculty, and administrators and support staff) could be chosen in early April by each group meeting separately and would be responsible for drafting a University of Toronto Act with commentary which would then be placed before the University-Wide Committee. The 2 members chosen from each group would have to be acceptable to the majority of those from each subgroup within that group. This Steering Committee would analyze the briefs submitted to the Programming Committee, the results of the questionnaire, the various meetings held throughout the University, and any meetings, formal or informal, with various groups and individuals which the Steering Committee might consider necessary. Because the Steering Committee might have to meet during the Summer and in the Fall, all those chosen would have to be available during these periods.

A resolution in the University-Wide Committee would have to be approved by a majority of those voting. However, some safeguard should be provided to ensure that a decision was not made which either the faculty or students opposed. It is envisaged, therefore, that if at the May meeting a resolution were to be approved by a majority of those voting, but a majority of those eligible to vote from either group I or II then specifically opposed the ultimate resolution concerning the top governing structure going forward as the voice of the University, the matter would be referred back to the Steering Committee and a further University-Wide Committee meeting would be arranged for the Fall. If at the Fall meeting the same result occurred, the votes would be given to the President without expressing any view as to his course of action.

The Programming Committee would maintain a close working relationship with the Steering Committee and the University-Wide Committee to ensure that both these bodies were working effectively.

(Members of the University community who have comments or suggestions about the program described above are asked to send them to the Secretary of the CUG Programming Committee, Robin Ross, Vice-President and Registrar, Simcoe Hall.)

Connective Tissue Club to hold inaugural meeting on January 29

A club is being formed which, it is hoped, will provide a forum where topics of interest to people working on all aspects of mineralized and soft connective tissues and their constituents can be discussed.

The inaugural meeting will be held on Thursday, Jan. 29, at 5 p.m. in Room 3268, Medical Sciences Building, to discuss the form of the club and the manner in which its scientific meetings are to be organized.

Please telephone one of the following if you are interested, if you intend to attend the meeting, or if you require further details: A. A. Horner, 928-2603; A. H. Melcher, 928-2779; or W. C. Sturtridge, 928-4082.

FORUM ON CUG

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flavour has always been, and evidently still is, not entirely a respectable calling at this University. Thus our small arrangements for such research (research assistants, programmers, expert technicians and so on) are very amateurish in comparison with (say) those of the National Research Council.

As to counsel, it seems to be sought from, and offered by, politically motivated chaps more frequently than from the more diffident but perhaps equally thoughtful members of the staff. An effective modern university would arrange mechanisms for gaining help in formulating suggestions, from all sectors of the University (including students) when asked for advice from a government or a social or economic section of society such as a labour union.

On the cultural side, I suspect that our creative contribution (as contrasted with the critical) is not very important beyond University environs, but it *could* be.

And technical consulting, though it is important if not vital to public welfare is treated here like a social disease.

One pathological aspect of teaching regrettably has appeared on the campus so I am told. It should be excised. I refer to preaching as very distinct from teaching. If a professor proclaims from the teacher's podium that the "United States is an imperialistic aggressor" or that "Russia is moral blot on the world scene" as part of a systematic preaching of his opinion, he invalidates his credentials as a teacher. Teachers who preach cease to be teachers and insult their students whom we must assume to be senior novitiates in the process of formulating individual opinions on a social or any matter.

I shall give an example of a possible "unicameral" organization that would meet the requirements of public representation, internal authority, and emphasis on the important functions (as above) rather than the ornamental ones. I propose that there be a president, an advisory "cabinet", and a "parliament". The university members could be drawn from just-retired deans or Department heads, present heads being alternates. Otherwise, Departments could appoint someone else, including a student, at their choice and in their own manner of choice. The operating support agencies—the Library and Superintendent's Office etc.—would each be represented in the same way. The Provincial government would appoint whom it chose from constituencies of labour, industry, business, research institutions, politics, the professions, the police, the press, alumni, and parents. (The latter now have no direct representation in university affairs and obviously have as large a stake as any group.)

The provincial appointees would select two from their number and the university four to advise the President on day to day business, but without direct administrative authority which would flow from the President. (I assume that six is a Parkinsonian limit to cabinet efficiency.)

The advantage of this suggestion is that there is a ready-made cadre of academic experts on all university pursuits, namely said heads and deans, who have a demonstrated capability for leadership and administration as well as scholarship. But all sorts of circumstances can be imagined in which a Department might have to, or would prefer to appoint, a capable junior man or woman.

There is also the ready-made departmental structures to funnel advice from students and staff and so no extra CUG type complications would be necessary to ensure more widespread consultation on administrative or extra departmental academic questions.

The 5-10 year rotational period for Departmental heads would automatically give the necessary rejuvenation to the parliament or "academy" (Utac for short).

One complaint on this simple scheme is the "political" difficulty in allocating a single representative to a department

regardless of size. This is an irrelevancy for a university. If a good man represents a large department his voice is automatically amplified by its size. And a good man representing a small department will be welcome for his goodness alone. In marginal cases, if a grouping wishes to assist by appointing a representative, let him be welcomed. In a university advisory body, political considerations of representation by population are inappropriate.

Since we should all be students still, there seems to be no need (under my arrangement at least) for recognizing a separate problem of student representation. So long as their voices in academic matters go through the apparatus of a Department, clearly undergraduate and graduate students should be given all the responsibility that they can handle, and consistent with the learning process to which they hope to apprentice themselves in coming here. If an Alexander, a Joan, or a Pitt appears among our first-year classes, let us make use of him or her to the full. But real students are sensible enough not to overreach themselves in impossible tasks. Equally, let us invite the students to help with the teaching process—in self-discipline of classes, for instance. Perhaps students could help one another to a much greater extent if senior students were to tutor their juniors according to the south-east Asian precept of "Each-one, teach-one".

Probably the students would want to appoint representatives to Utac in respect to their non-academic interests such as sports, residences, and so on.

An incidental benefit to such a quick and simple resolution to the governance of the University, but one of pressing importance, would be the restoration of the dignified and reflective atmosphere necessary to carry out the difficult tasks of university work. Athenian style public debates, and fist-shaking have no place in a place of reason.

D. V. ANDERSON
Department of Mathematics
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J. Grayson

Dr. MacLean's letter in the Jan. 8 issue of the U of T Bulletin expresses very ably what are, I think, the views of many of his colleagues. I will not waste space re-iterating them. They do lead to further comment.

There is a recent tendency to classify academic activities within the University under the headings, teaching or research. These are frequently regarded as unrelated exercises with research being irrelevant to student needs.

Stephen Leacock made the point (not that he pioneered the idea) that universities are for learning not for teaching. This philosophy seems to be forgotten in a curious age in which there is wild oscillation from a "do your own thing" style of teaching ("unstructured", I understand is the phrase) to a didactic "one, two, three" kind of teaching where every syllable is spelled out in a series of tedious, examination geared lectures. Leacock's view was somewhere in between. Students are normal, intelligent adults who are capable of responding to an intellectually stimulating atmosphere and of thinking for themselves. Of course they need guidance and supervision, they need stimulation even more. Lectures can be justified only in so far as they stimulate, guide or throw light on dark corners; they should never be textbook substitutes.

At this stage I shall hesitatingly slide the word "scholarship" into play. In my view its pursuit is the most significant activity of the University; it is not an alternative to teaching or research. It is any creative activity within the academic framework. It can be learning, it can be teaching if this is intelligent and partakes of new ideas, it can be research in the laboratory or library sense, it can be writing novels or text-books, I would even include Marshall McLuhan's productions under the head. The modern tendency to regard teaching and research as separate activities is, I think, unfortunate. To imply that the research worker is, in some way cheating the

taxpayer is silly, for he is an important factor in the generation of an atmosphere of enquiry and of challenge which alone makes the University. It is an atmosphere in which all, Faculty and student body, should participate else we are failing in our appointed tasks.

In the science departments teaching would be a practical impossibility without research, if for no other reason than the simple fact that it is the graduate students and young research workers who largely man the teaching laboratories. Moreover, at the level of the lecture theatre and seminar room, my own experience has always been that the best lecturers and most inspiring teachers, in the scientific fields at least, have been outstanding scholars and scientists (the converse is not, I fear, always true).

I do not support the policy of publish or perish in its more extreme form. But to me it is only reasonable to link appointment and promotion to creative activity—in its widest sense as I have attempted to define it. In the University only a man who is creative and original is capable of providing the level of intellectual stimulus which should demarcate it from the trade school. There may be others who deliver good lecture notes (which, in an age of good text books ought to be redundant anyway) but this alone is not what universities should be about.

It is unfortunately true that there is a great deal of poor teaching in the University but it is nonsense to imply that it is mainly done by good research workers. There is also a fair measure of poor research carried out (and what is worse, published) and I would be prepared to wager that much of the bad teaching is done by this same group.

We seek answers by legislation. We are convinced that by burying our heads, ostrich like, in a desert of new regulations and reforms, all will be well. This overlooks the point so well made by Dr. Sawyer that the real trouble is simply that the universities and schools have expanded beyond the capacity of staff or student reservoirs to man them adequately.

This is a large and important subject with which I shall not deal at present. This is merely a plea on behalf of the poor defenceless scholar working in his electronic garret. I think the point has been made. The scholar (and this phrase also takes care of the research worker) is the backbone of the University; he is responsible for some of the better points in the University's outside image (after all penicillin was not discovered in a text book) but more than that, as often as not, he is also the best teacher.

J. GRAYSON
Professor
Department of Physiology
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Stanley Schiff

In the discussion of the Report of the Commission on University Government, a very important matter has been overlooked and, indeed, may not be widely known. In September, 1969, the non-voting member representing the graduates (and his three alternates) presented to the Commission for inclusion in the Report a brief but cogent dissenting statement which focussed mainly on the recommended composition of the Governing Council and its executive committee. After they considered this statement, the voting members of CUG refused to publish in the Report more than the skeleton version which appears as Appendix VI (page 59).

(Text of the statement as originally presented in CUG is on Page 2.)

As will be noted, the brevity of this statement and the lack of elaborated supporting argument were the result of the prior wishes of the voting members. (The argument had been presented in more detail in position papers submitted in CUG sessions during the summer.)

On the specific issues dividing the dissenters from the voting members of CUG, I take no position here. Indeed, I am inclined to reject both sets of proposals, as I do proposals concerning matters upon which they agreed. However, I am most disturbed that, whatever views the dissenters held, the voting members of CUG chose to expurgate their statement for presentation in the Report.

At a meeting in the Faculty of Law early in November, the co-chairmen of

CUG were asked about the dissenting statement. At that time, Dr. Lawrence Lynch mainly supported the conduct of the voting members on two grounds. First, he said the member representing the graduates and his alternates had full opportunity to present their views to the voting members of CUG during the pre-Report sessions, and indeed they did so. The voting members then declined to adopt these views. Secondly, he said, the dissenting statement as presented to the voting members constituted a minority Report, and threatened the consensus which had been reached by the voting members. Had CUG chosen to publish this statement, other members indicated that they too would publish their separate views. Thus, in order to avoid splitting the consensus, the voting members decided that the statement could not be published as drafted.

At the CUG programming committee open meeting in Hart House on Dec. 4, CUG members James Thompson, D'Arcy Martin, and Gary Webster gave somewhat different reasons. In their view, the member representing the graduates and his alternates were unreasonable in not yielding to the consensus ultimately reached by the voting members. Further, they were unreasonable in expecting the Report to contain a statement of a proposal which differed from that upon which the majority had concurred. Had the Report contained such a statement, the argument continued, this would have required a rebuttal in the body of the Report and—by logical extension—a rebuttal of each proposal for the composition of the Governing Council earlier advanced by other members of CUG. Finally, the member representing the graduates and his alternates were unreasonable in rejecting for inclusion in the Report, in favour of the statement which they had drafted themselves, a version of their dissenting views drafted by the voting members. In passing, Mr. Martin also asserted that the dissenting statement set out proposals designed to advance the particular interests of alumni (as opposed, apparently, to the interests of the university as a whole, its staff and its students).

In my view, these arguments in no way justify what was censorship of the views of a member of CUG and his colleagues.

I have no reason to believe that the voting members did not carefully consider the views of the graduate representatives in the pre-Report sessions. However, in the context of the present need for university-wide discussion of the long-term structure of this institution, that is not the point. Since most faculty members and students did not attend many (if any) CUG sessions and since they will not research the CUG archives to find out what happened, views expressed at the sessions by the various voting and non-voting members cannot now generally be known. If the present discussion is to proceed meaningfully, all participants must know all the facts—and these facts include the considered arguments of a CUG member and his colleagues who, after taking part in the pre-Report deliberations, disagreed so strongly with the proposals of voting members that they chose to draft a formal dissent incorporating their views. By their action, the voting members of CUG effectively denied to the university community whatever value in the current discussion we might gain from these views.

The other arguments justify expurgation even less. The voting members of CUG were apparently so concerned to achieve consensus, and then to preserve the consensus which they had reached, that they chose to muffle the views of non-voting colleagues who disagreed! I find nothing unreasonable in the refusal of the member and alternates representing the graduates to yield ground upon the subject of a fundamental disagreement, nor in their desire to have their disagreement outlined fairly in the Report. As far as any problem of rebuttal was concerned, it was easily solvable: If rebuttal in the body of the Report was necessary (which I think is doubtful), only one rebuttal was required; since the voting members had reached their consensus on this matter earlier, there was no need to canvass prior differences

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Policy stands: Placement Centre open to all for campus recruiting

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Committee reaffirm the policy that had been approved on three previous occasions. The motion was carried unanimously.

The call for a delay in the discussion resulted from the fact that there were only two students at the meeting—Mr. Kendall and the chairman, Miss Toni McNamara, although they are entitled to five. Three student members had resigned and SAC had not yet replaced them. In addition, three staff representatives were absent from Tuesday's meeting—Dean James Ham, Applied Science and Engineering; Prof. R. E. Jervis, Chemical Engineering, and Prof. Melville Watkins, Political Economy.

Present at the meeting in addition to Miss McNamara, Mr. Kendall and Mr. Wilson were Vice-Provost Donald Forster, Prof. I. McCausland, Electrical Engineering; Prof. John Crispo, director, Centre of Industrial Relations, and Walter Giles, alumni representative.

Members of the Advisory Committee received, prior to the meeting, a statement of background information prepared by Wim Kent, Executive Assistant to the Vice-President and Registrar, which follows:

"Although no formal request has been received from the SAC, *The Varsity* reported on Friday, Jan. 16 that the executive committee of the SAC would request the Advisory Committee to the Placement Service to re-open the discussion on the question of accessibility of companies to the facilities of the Placement Centre. This resolution was adopted by the executive committee following a request from the Committee to End the War in Viet Nam for SAC support for planned demonstrations against the presence of the Honeywell Corporation on campus in late January. It was reported that the SAC executive does not endorse this protest, but that in light of renewed interest the Placement Service Advisory Committee would be asked to re-open the discussion of campus recruitment.

"Since a meeting of the Advisory Committee had already been arranged for to discuss a number of matters in relation to the Placement Service, this item has been added to the agenda. For the information of the members of the committee it may be helpful to provide you with some of the history to this question.

"The University has gone through a long democratic process in reaching the decision that the facilities of the Placement Service should be open to all companies. This means, in simple language, that all companies, including companies that appear to be involved with the Viet

Nam war, are free to use the facilities of the campus for recruiting purposes.

"The Placement Service has been in operation since 1948. During the fall of 1967 and the early part of 1968 there has been continued discussion on the question of whether or not companies allegedly complicit in the Viet Nam war should be allowed to use the Placement Service. This discussion has taken place in the Advisory Committee to the Placement Service, and this is a committee of which the composition and terms of reference were jointly agreed between the University and the Students' Administrative Council.

"In January of 1968, after a very lengthy debate, the nature and results of which were published in *The Varsity*, the press and elsewhere, the committee decided, in effect, to make this service open to all companies. The composition of the committee at that time consisted of five students nominated by the SAC, five members of the teaching staff nominated by the ATS, the Dean of Engineering, the Vice-Provost, a representative of the University of Toronto alumni, and the Registrar of the University. This was a composition agreed to jointly by all parties involved in the make-up of the committee.

"In October of 1968, the student members of the committee changed, and the Registrar asked to be relieved of membership on this committee. Miss Toni McNamara of the SAC was elected chairman of the committee and with the full agreement of the committee, the Registrar's place was taken by a second member of the alumni. In October of 1968, the committee once more considered the question of recruitment on campus. They did this in meetings which were held openly. Other members of the University, the public, and so on, attended and were able to take part in the discussions. The result of these discussions was that the committee decided a second time to permit the accessibility of all companies to the facilities of the Placement Service.

"This question was raised a third time at a meeting of the committee in November of 1968, and for the third time the committee agreed that their two previous decisions should stand.

"In brief, then, the situation is that a properly constituted and representative group agreed to by the teaching staff, the SAC, and the administration of the University, has thought at length on the question that is now being re-opened, and on three separate and distinct occasions in the course of 1967 and 1968, has decided that it is in the interest of the students and of the University that the facilities of the Placement Service be open to all companies."

lowing lectures: "Fundamental Processes in the Photochemistry of Polymers", General Electric Co., Research Labs., Schenectady, N.Y., May 15; "Photoinitiation of Polymerization" at the Polymer Conference Series, University of Detroit, June 9; "Photo Stabilization Mechanisms", at Imperial Oil Enterprises Limited, Samia, June 11; "Photochemistry of Macromolecular Systems", at Kodak Limited, Wealdstone, Middlesex, England, Aug. 12; Kodak-Pathe, S.A.-30, Vincennes, France, Aug. 14; and at the Institute of Macromolecular Chemistry, Czechoslovak Academy of Sciences, Prague, Aug. 19; "Influence of Monomer Concentration on Stereoregularity of the Anionic Polymerization of Methyl Methacrylate", at the IUPAC Macromolecular Symposium, Budapest, Aug. 26; "Study of Polymer Structure and Interactions by Gas Chromatography", before the Canadian High Polymer Forum, Kingston, Ont., Sept. 3; "Fundamental Processes in the Photostabilization of Polymers" and "Polymerization of Propylene of Single Crystals of $\alpha\text{-TiCl}_3$ ", at the Phillips Petroleum Co., Bartlesville, Okla., Nov. 6 and 7; and "Fundamental Processes in the Photodegradation of Polymers", at the Rohm & Haas Co., Philadelphia, Nov. 13.

PROF. PETER YATES spoke on "Aspects of the Photo-chemistry of Cyclic Ketones" at Laval University on Nov. 3, on "Organic Photochemistry" at the Research Laboratories of the Ciba Pharmaceutical Company, Summit, N.J. on Nov. 24, and on "Approaches to 1,2 Cyclooctatetraenoquinone" at the North Jersey Section of the American Chemical Society on Nov. 24 and at York University on Dec. 10.

PROF. L. CURRY gave a paper on "Univariate Spatial Forecasting" at the London Invitational Conference of the International Geographical Union's Commission on Quantitative Methods, held at the London School of Economics, Aug. 18-20.

At the Ann Arbor Invitational Conference of the International Geographical Union's Commission on Quantitative Methods, held at the University of Michigan, Aug. 8-10, PROF. A. M. BAKER gave a paper on "Models of Spatial Behaviour in Urban Environments"; PROF. E. B. MACDOUGALL

gave a paper on "Spatial Filtering"; and PROF. R. D. MACKINNON gave a paper on "Dynamic Programming and Geographical Systems".

PROF. W. C. DEAN has accepted an invitation to join University College, Cambridge, as a Visiting Fellow.

PROF. A. M. GORDON presented a paper on "Phonetics of Bolivian Spanish" at the fall meeting of the Ontario Chapter of the American Association of Teachers of Spanish and Portuguese, in Ottawa, Nov. 1.

PROF. K. L. LEVY addressed the Ontario Modern Language Teachers Association on "La universidad latinoamericana" at Laurentian University, Oct. 3-4, and also addressed the New York State Foreign Language Teachers Federation on "What the Foreign Language Teacher has to offer to the Art of Communication in Contemporary Society", at Kiamesha Lake, N.Y., Oct. 19-21.

PROF. K. B. RANGER gave a lecture at Carleton University's Mathematics Seminar on Nov. 5 entitled "Magnetohydrodynamic Flow Past a Sphere".

PROFS. CHANDLER DAVIS and PETER ROSENTHAL were invited participants in the Special Year in Functional Analysis being held as part of the sesquicentennial of Indiana University. Prof. Rosenthal attended Sept. 22-26; Prof. Davis, Nov. 10-16. They lectured on their recent research, and contributed to a report on future directions of research in the field.

University College

PROF. D. F. S. THOMSON delivered a paper entitled "A Pair of Poems: Catullus 36 and 37" at the annual meeting of the American Philological Association in San Francisco on Dec. 27.

PROF. CÉCILE CLOUTIER-WOJCIECHOWSKA participated in a bilingual colloquium "Poet and Critic/Poète et Critique" at the University of Alberta, Edmonton, from Nov. 20 to 22. She also gave an invited lecture on "French-Canadian Culture", Dec. 4, at York University.

PROF. ROBERT FINCH led an informal discussion for graduate students and gave

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FORUM ON CUG

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of view among them. I dispose of the argument of alumni self-interest summarily. Upon a fair reading of the dissenting statement, this argument is unsubstantiated by the contents of the statement itself. Insofar as the statement argues for alumni representation on the Governing Council, the argument is clearly directed to the wider problem which now bothers many members of the university community, that is, the appropriate blend upon the Governing Council of experience, interest, and business and academic competence.

In my opinion, the refusal of the voting members of CUG to publish the dissenting statement in its original form renders suspect their purported consensus. Any consensus so fragile that it cannot withstand the criticism set out in this dissenting statement is perhaps unworthy of the support solicited in the Report. But more than that, the refusal of the voting members to publish the statement constitutes their purchase of consensus (or its appearance) in the Report at the intolerably high price of the very fairness, openness, candor, and trust in this university which the Report calls for.

STANLEY SCHIFF
Professor, Faculty of Law
☆☆☆

Edward F. Sheffield

The nature of the CUG report is explained, it seems to me, by the composition of the Commission. I think the Board of Governors was mistaken to yield to the pressures of the Association of the Teaching Staff and the Students' Administrative Council for a body made up of equal numbers of teachers and students and the President of the University, as voting members, with the role of representatives of the governors and the graduates limited to that of observer.

What came out, for the most part, is a discussion of the nature and role of the modern university which reflects the views of radical students, apparently concurred in (was there really a choice?) by the faculty members and the President, some of whom might have expressed themselves quite differently if they had been on their own.

Of the 107 recommendations, the last is the key. It is the one which relates directly to the terms of reference of the Commission and proposes a new structure for the government of the University of Toronto. The draft Act which is proposed for passage by the Ontario Legislative Assembly would give the Governing Council the power to make its own by-laws and regulations, including those which could (but need not) implement most of the other 106 recommendations of the Commission. It is to this final recommendation that we should now be giving our chief attention.

I believe we should have a single-tier governing body, but the composition of the proposed Council is unsatisfactory from several points of view. It is too large. It gives the public too little representation and the graduates (as such) too much. It assumes that the chief governing parties should be the teachers and students, in equal numbers. It treats senior administrators as civil servants and accords them too little representation.

The proposal that there be parity between teachers and students fails to recognize the fact that teachers are permanent members of the university community, while students are temporary members. That temporary members should have the same voice in determining policy as permanent members is, to say the least, inappropriate. With respect to the role assigned, by implication, to administrative officers, there is inadequate recognition of the fact that most of them are as if seconded from the teaching staff for limited periods to assume more taxing duties, and of the perspective an administrative post enables its incumbent to bring to the government of the University.

There must be many more satisfactory combinations of numbers by which the interested parties could be represented on the Council. One such might be a total of 45, made up of 18 laymen (no special category for graduates), 12 elected academic staff, 6 elected students and 9 ex officio members (the President and 8 others, including academic administrative officers such as deans).

EDWARD F. SHEFFIELD
Professor of Higher Education

STAFF NOTES

Arts and Science

DR. DAVID R. HUGHES attended the first Canadian workshop on Co-ordinated Studies in Growth and Development, at Ste. Marguerite, Que., Nov. 17-19, and reported on progress in the Canadian International Biological Program, Human Adaptability Project at Igloodik, N.W.T. Dr. Hughes was guest speaker at a meeting of the Defence Research Board Panels held at the Defence Research Establishment, Toronto, on Dec. 12. He addressed the meeting on the subject of "Human Adaptability in the Canadian Eskimo".

PROF. D. A. MACRAE addressed the Toronto Centre of the Royal Astronomical Society of Canada, Oct. 3, on "Astronomy of the Future". He also attended a meeting of the Board of Trustees of the Universities Space Research Association in Houston, Oct. 15-16.

PROF. HELEN S. HOGG attended a meeting of the National Lectureship Committee of Sigma Xi in New York on Oct. 6.

PROF. J. F. HEARD addressed the London Centre of the Royal Astronomical Society of Canada Oct. 16 on "The History of Navigation".

PROF. J. D. FERNIE attended a meeting of the American Astronomical Society's Committee on Education in Astronomy in New York, Nov. 7-8.

PROF. R. F. GARRISON gave a colloquium on Oct. 24 at the University of Rochester and on Nov. 13 at Harvard University on "Some Characteristics of Peculiar B Stars".

PROF. S. VAN DEN BERGH observed at Mount Palomar and Kitt Peak Observatories, Oct. 17-24, and PROF. J. R. PERCY observed at Kitt Peak, Oct. 9-26.

PROFS. J. F. HEARD, H. S. HOGG, J. D. FERNIE, D. A. MACRAE, J. R. PERCY, R. C. ROEDER and E. R. SEAQUIST attended the Scientific Sessions of the National Committee for the International Astronomical Union at the University of Western Ontario. Papers were presented as follows: Prof. Percy, "The High Temperature Boundary of the Delta Scuti Instability Region"; Prof. Seaquist, "A Search for Circular Polarization of Compact Radio Sources at 9.26 cm."; Profs. Roeder and Chambers, "Q.S.O. Colours and K-Corrections".

PROF. M. J. CLEMENT attended the I.A.U. Symposium on Stellar Rotation at Ohio State University Sept. 8-9 and presented a paper on "Differential Rotation in the Solar Interior".

PROF. J. B. JONES presented an invited talk on "Chemical Studies Related to the Δ^5 -3-Ketotestosterone of *Pseudomonas testosteroni*" at the Syntex Research Institute, Palo Alto, on Nov. 6.

PROF. J. E. GUILLET has given the fol-

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a public lecture, Nov. 20, at Ohio State University, on "French Poetry of the Eighteenth Century".

PROF. B.-Z. SHEK was guest lecturer at York University on Nov. 26, conducting two seminars with day and evening students in PROF. WILLIAM KILBOURN's course on Canadian History and Canadian Identity. His topic was "The French-Canadian Novel and French-Canadian Identity". Prof. Shek has been named coordinator of a series of public lectures on the history of French-Canadian literature, sponsored jointly by the French-Canadian cultural organization, *La Chasse-galerie*, and the Glendon College Forum. The lectures will be held at Glendon College between January and May.

PROF. D. B. REDFORD attended the annual meeting of the Society of Biblical Literature and Exegesis in Toronto, Nov. 17-19, where he read a paper entitled "The Dates in Ezekiel in Relation to Egyptian Sources".

Victoria College

PROF. P. M. HUGHES has been appointed to the Regional Selection Committee of the Woodrow Wilson Foundation.

PROF. F. J. D. HOENIGER gave the following guest lectures: at Karlovy University, Prague, on "King Lear: Art and the Primitive" on May 19, and on "Shakespeare's All's Well" on May 21; at Tübingen University on "King Lear" on June 23; at the Shakespeare Seminar at Stratford, Ont. on "Shakespeare as an Experimental Innovator in Comic Form" on Aug. 7.

PROF. J. R. DE J. JACKSON gave a paper on "From Grammar to God: James Harris and S. T. Coleridge" at the University of Wisconsin, Madison, Oct. 22.

PROF. P. M. HUGHES gave a talk on "Historicism and Aesthetics in the Eighteenth Century" as part of a panel chaired by THEODORE BESTERMAN at McMaster University on Nov. 22.

PROF. ROSS H. MACDONALD has been appointed by the Trustees of Princeton University for a three year term to the Advisory Council of the Department of East Asian Studies.

Trinity College

PROF. BRIAN T. FITCH delivered a lecture on "La Nausée de Sartre" at Case Western Reserve University in Cleveland Dec. 11.

St. Michael's College

PROF. R. J. SCHOECK participated in the Erasmus Symposium at the Folger Library in Washington on Nov. 22 and gave a paper on "Erasmus and the Renaissance Rediscovery of Tradition". Next day he attended a meeting at the Folger Library as a member of the Editorial Board of the Edition of Richard Hooker.

Erindale College

H. W. TAYLOR was elected a Fellow of the Institute of Physics of Great Britain in October.

I. LANCASHIRE directed a production of *Hycke Scornor* (a 16th century English rogue morality play), at University College Nov. 19, 20 and 21. The play was done under auspices of the *Poculi Ludique Societas*.

Massey College

PROF. W. A. C. H. DOBSON was the guest speaker at the Royal Canadian Military Institute's annual dinner on Dec. 4. His subject was "China as a Military Power".

Medicine

PROF. G. R. WILLIAMS gave a seminar to biochemists from the Baltimore and Bethesda area on Nov. 19 at the Maryland Psychiatric Research Center. The title of his address was "Metabolite Levels in and around Mitochondria".

DR. O. S. KOFMAN participated in the Laurentian Research Conference on L-dopa held in Val David, Que., Nov. 8-11. He was asked to discuss "Clinical Observations Pertaining to the Variety and Management of Associated Involuntary Movements in Parkinson Patients During L-dopa Therapy".

DR. D. E. BERGSAGEL attended the Chronic Leukemia-Myeloma Task Force Symposium, Nov. 12, in Bethesda, and spoke on the subject of "Growth of Mouse Myeloma Stem Cells in Cell Culture".

DR. E. D. WIGLE gave a seminar entitled "Cineangiographic Observations in Muscular Subaortic Stenosis" to the Departments of Radiology and Medicine at the University of Rochester on Oct. 7. At the American Heart Association meetings in Dallas, Texas, Nov. 13-16, Dr. Wigle gave a paper entitled

"Influence of Pharmacologic and Surgical Treatment on the Dynamics of Obstruction in Hypertrophic Subaortic Stenosis". Co-authors were P. H. SHAH and R. GRAMIAK of Rochester, and A. G. ADELMAN of Toronto. At the meetings of the Canadian Cardiovascular Society in Quebec City, Oct. 23-25, the following papers were presented: "Long Term Propranolol Therapy in Muscular Subaortic Stenosis" by A. G. ADELMAN, P. M. SHAH, R. GRAMIAK and E. D. WIGLE; "A Reassessment of Mitral Valve Anatomy and its Significance in Prolapsed Posterior" by J. H. LAM, R. RANGANATHAN, E. D. WIGLE and M. D. SILVER, and "Influence of Treatment in the Dynamics of Obstruction in Muscular Subaortic Stenosis" by P. M. SHAH, R. GRAMIAK, A. G. ADELMAN and E. D. WIGLE. At a meeting of the Canadian Heart Foundation in Quebec City on Oct. 22, Dr. Wigle was guest speaker. His topic was "Health Research in Canada".

DR. W. T. W. CLARKE, as chairman of the Drug Quality and Therapeutics Committee to the Province of Ontario, has been appointed a member of the Province's newly formed Comparative Drug Index Advisory Committee. He was chairman of the program committee for the American College of Physicians Regional Meeting held in Toronto on Oct. 30. Dr. Clarke has given the following papers recently: "Choice of Drugs in Hospitals" at the symposium on the Physiological Equivalence of Drug Dosage Forms, in Ottawa, June 27; "Conservative Management of End Stage Renal Disease" and "Office Management of Diabetic Patients" to the College of Family Physicians' 13th annual Scientific Assembly in Toronto, Sept. 29 and 30; "The Factors in the Choice of Antibiotics" at the Scarborough General Hospital Clinic, Nov. 12.

DR. D. R. WILSON gave a paper on "Mineral Metabolism after Transplantation" at the symposium on Bone Disease in Renal Failure, held in the Medical Sciences Building, Nov. 29.

DR. W. A. MAHON presented a paper entitled "The Cardiac Effects of Bretylium" to the Canadian Cardiovascular Society meeting in Quebec City, Oct. 23.

DR. T. T. ZSOTER presented a paper, co-authored by DR. BECK, entitled "Adrenergic Receptors in Human Veins", to the same meeting.

DR. W. STANLEY HARTROFT has accepted a position as professor of Experimental Pathology at the University of Hawaii, effective July 1 next. He has sabbatical leave from January 1 and is at Columbia University. Dr. Hartroft has been director of the Research Institute of the Hospital for Sick Children since Sept. 1, 1961.

DR. CLARENCE B. FARRAR received, in absentia, the 1969 Distinguished Service Award of the Thomas W. Salmon Committee on Psychiatry and Mental Hygiene, New York Academy of Medicine. The awards, which included a silver medallion and a parchment scroll, were presented at a dinner at the New York Academy on Dec. 3.

DR. R. VOLPE gave a seminar at Columbia Presbyterian Hospital, New York City, Dec. 12, on "Studies in Triiodothyronine Kinetics in Health and Disease".

A paper entitled "Stimulation of Bovine Thyroid Cells in Suspension by LATS Globulin", was presented by DR. MERRILL EDMONDS to the Canadian Society of Clinical Investigation meeting, Jan. 21, in Montreal. Authors of the paper were DR. EDMONDS, VAS V. ROW and DR. VOLPE. A paper, presented by DR. VOLPE to a meeting of the Royal College of Physicians and Surgeons of Canada, Jan. 23, was titled "Studies in Triiodothyronine (T3) in Health and Disease". It was authored by DR. VOLPE, VAS V. ROW, JEAN DUSSAULT and JOSEPH MCCONNON.

Applied Science and Engineering

H. L. WILLIAMS chaired the session on polymers at the recent symposium on New Concepts in Materials held at Sheridan Park.

R. T. WOODHAMS chaired the session on composites at the same symposium.

CHARLES E. CHAFFEY spoke on "How Valid is a Theory of Polymer Solution Rheology" at the Department of Chemical Engineering, McMaster University, Oct. 24.

J. S. HEWITT presented an invited paper "On the Resolution Function of Digitally Stabilized Nuclear Spectrometers" at the Nuclear Science Symposium of the Institute of Electrical and Electronic Engineers, held in San Francisco on Oct. 31. Dr. Hewitt also visited the Lawrence Radiation Laboratory, Livermore, and the Stanford University Van de Graaff Laboratory. A talk entitled "Recent Developments in Photon-neutron Research with the Toronto Linac"

was given during a visit to the Gulf General Atomic Laboratory, San Diego.

M. E. CHARLES and R. LUUS attended the symposium, "Pipeline Transport of Solids", sponsored by the Toronto Section of the Canadian Society of Chemical Engineering on Nov. 10. Over 250 people attended from all over North America. Prof. R. Luus is chairman of the Toronto Section and Prof. M. E. Charles was symposium chairman. At this meeting papers, "The Design of Long-distance Pipelines" and "Solid-liquid Separation", were delivered by G. S. STEVENS, graduate student, and PROF. D. MACKAY, respectively.

PROF. W. H. RAPSON presented an invited paper on "Mechanisms of Groundwood Bleaching" at the annual meeting of the Australian and New Zealand Pulp and Paper Industry Technical Association in Burnie, Tasmania, on March 24. During June Prof. Rapson visited the research institutes and the major pulp and paper companies of New Zealand and Australia. He presented a paper on "Recent Developments in the Bleaching of Chemical Pulps" at research institutes in each country. Prof. Rapson was invited to present the 23rd Annual TAPPI West Coast Seminar on Sept. 11-12 at Portland, Oregon, on "Research on Pulp Bleaching at the University of Toronto". At the dinner on Sept. 11, he spoke on "The Pulp and Paper Industry of Australia and New Zealand". In October Dr. Rapson was invited to visit pulp and paper and chemical companies in Japan and presented a lecture on "A New Era in Chlorine Dioxide Manufacture and Pulp Bleaching" in Tokyo and Tomakamai under the auspices of the Japanese Technical Association of the Pulp and Paper Industry.

DR. R. E. JERVIS participated in a meeting of the Alberta Inter-departmental Committee on Pesticides, Edmonton, Oct. 16, and outlined the mercury pollution program in the University and the results of co-operative studies on pheasants, partridge, fish and some selected foodstuffs. He was recently elected as a member of the Council of the School of Graduate Studies from Division III.

DR. Jervis also attended the national conference of the American Nuclear Society, San Francisco, Nov. 30 to Dec. 4, and participated in a panel on the presentation of nuclear activation results as evidence in law courts. He was named to a new International Committee to certify Forensic Activation Analysis methods for use in world courts. Recently he was appointed a consultant to the joint Interpol-International Atomic Energy Agency project on Forensic Activation Analysis, Vienna.

PROFS. E. J. DAVISON and H. W. SMITH attended the 5th Congress of the International Federation of Automatic Control in Warsaw, Poland, June 16-21, where Prof. Davison presented a paper, "A Nonminimum Phase Index and its Application to Interacting Multivariable Control Systems" and Prof. Smith represented Canada at the IFAC General Assembly.

PROFS. SMITH, DAVISON, I. MCCAUSLAND, I. H. ROWE, also F. T. MAN and P. J. McLANE, attended the Joint Automatic Control Conference at the University of Colorado, Aug. 5-7, where the following papers were presented: "A Computational Technique for Finding Time-Optimal Controls of Nonlinear Time-Varying Systems" by Prof. Davison *et al.*; "Design of Linear Regulators Optimal for Time-Multiplied Quadratic Performance Indices" by Profs. Man and Smith; "The Optimal Regulator Problem for a Stationary Linear System with State-Dependent Noise" by Prof. McLane, and "A Bootstrap Method for the Statistical Estimation of Model Parameters" by Prof. Rowe. Prof. Davison also presented his IFAC paper. Prof. McCausland visited the University of New Brunswick Oct. 9-10 and gave a seminar on "Peak-Searching Procedures Using Probabilistic Information".

Prof. Smith attended the Canadian Control Conference at the University of Alberta, Aug. 27-29, where he was chairman of a technical session on process identification. He attended the International Symposium on Computer Applications in the Mineral Industry, Sept. 15-17, sponsored by the Society of Mining Engineers, where he presented a paper, "A Preliminary Dynamic Model for a Flotation Circuit". Prof. Smith was appointed by the National Research Council as chairman of its Associate Committee on Automatic Control, from Oct. 1.

S. S. PRABHU attended the 7th annual Allerton Conference on Circuit and System Theory, Oct. 8-10, and presented a paper, "Application of Galerkin's Method for the Determination of Time-Optimal Control of Distributed-Parameter Systems" (with Prof. McCausland).

PROFS. P. P. BIRINGER and W. JANISCHESKY, as chairman and member, respectively, participated in a meeting of the Canadian Accreditation Board Sub-Committee on Foreign Engineering Curricula held in Ottawa on Oct. 10.

PROF. BIRINGER has been elected a Fellow of the Institute of Electrical and Electronics Engineers with the citation: "For educational leadership, and for techni-

cal contributions in the analysis of non-linear magnetic devices". He attended a meeting of the IEEE-IGA group in Detroit, Oct. 13-15, where he was co-author of papers entitled "Input Filter Design for Inverters" and "Series Inverter without Gate Control". He also attended a meeting of the Educational Activities Board of the IEEE in New York on Nov. 13.

Library Science

PROF. OLGA B. BISHOP attended the Canadian Library Association, Chairman Nominating Committee, Research and Special Libraries Section annual conference, held in St. John's, Nfld., June 6-14. She also attended the Special Libraries Association meeting, as chairman, Resolutions Committee, held in Montreal, June 1-6.

PROF. MARGARET E. COCKSHUTT attended the annual conference of the Canadian Library Association in St. John's, June 8-13. She attended the meetings of the Executive of the Canadian Association of College and University Libraries, and as vice-president presided at some of its sessions. While in St. John's, she also attended the annual meeting of the Canadian Association of Library Schools.

PROF. LLOYD J. HOUSER participated in the deliberation of the Action Group of Government: Political Action Division of the Ontario Library Association, which was considering impending legislation affecting libraries, at N.Y.P.L. on Oct. 26.

A report prepared by PROF. EDITH T. JARVI as chairman of the committee to study the possibility of preparing a guide to Canadian reference materials was accepted at the CLA conference. She attended A.L.A. in Atlantic City to take part in the deliberations of the Subscription Books Committee as one of two Canadian representatives.

PROF. BRIAN LAND attended the World Conference on Records held in Salt Lake City, Aug. 5-8. He also attended the meeting of the Deans and Directors of the Canadian Association of Library Schools in Ottawa, Nov. 3-4.

PROF. FLORENCE B. MURRAY, chairman of the History Section of the American Library Association, presided at the annual meetings of the section, and represented the section on the Directors Board of the Reference Services Division, at the American Library Association Conference, Atlantic City, June 22-27.

MRS. ANN H. SCHABAS has been granted leave of absence for the 1969-70 session in order to undertake studies for the doctoral degree in librarianship at the University of London, England.

MRS. ASTA LUIK, chief librarian of the School since 1965 has resigned to become chief librarian of the Institute for Aerospace Studies, U of T.

PROF. KATHARINE L. BALL was awarded the Margaret Mann Citation in Cataloging and Classification for 1969, by the Cataloging and Classification Section, Resources and Technical Services Division of the American Library Association at its annual meeting at Atlantic City in June. The citation to Prof. Ball, who is the first Canadian to receive the honour since its inception in 1951, reads as follows:

"The Margaret Mann Citation in Cataloging and Classification is awarded in 1969 to Katharine L. Ball for distinguished service to librarianship through international activities in cataloging, teaching, publication, and participation in professional associations in Canada and the United States. A dynamic person, with alert grasp of principles and gifted performance, she has had profound influence on cataloging theory and practice in Canada and, with charming, enthusiastic leadership, has achieved agreement among Canadian and American catalogers."

Music

PROF. TALIVADIS KENINS' *Piae Cantiones Novae*, a collection of five "a capella" songs for SATB choir, has been published by Waterloo Music Company Ltd., with English text by Warren Drake of the Faculty of Music. His *Juggler* and *The Clown*, two educational pieces for piano, have been published by Boosey and Hawkes (Canada) Ltd. and he has been commissioned by the Edward Johnson Music Foundation to write a choral work for mixed choirs, soloists and orchestra for the 1970 Guelph Spring Festival.

Composition Today, a lecture series presented by PROF. LOTHAR KLEIN at the Berlin Hochschule fuer Musik last spring, will be rebroadcast this winter by the North German Radio. On Nov. 28, Prof. Klein's composition, *Incantations: Three Greek Rites*, received a Lincoln Center performance by the Manhattan Percussion Ensemble.

Graduate Studies

A group of four staff members and eleven students from the Department of Higher Education, Faculty of Educational

(See page 6, col. 1)

STAFF NOTES

(Continued from page 5)

Studies, State University of New York at Buffalo, spent two days, Dec. 8-9, visiting the Higher Education Group at the University of Toronto. Leading the group were PROF. E. DURYEA, acting-chairman of the Buffalo department, and ROBERT O. BERDAHL, co-author of the Duff/Berdahl report on *University Government in Canada*. The latter became a professor of higher education at Buffalo in the fall of 1969.

Ontario Institute for Studies in Education

PROF. RALPH GARRY chaired an international colloquium on "Television and Youth" which was part of a biennial international seminar sponsored by the Prix Jeunesse Foundation in Munich, Germany, July 7 to 11. Youth representatives, researchers and television producers from 25 Asian, European and American countries participated.

PROF. S. A. ALVI attended the American Psychological Association Annual Convention in Washington, held Sept. 1-3.

PROF. WILLARD BREHAUT is on a year's study leave in England as a visiting scholar at the Institute of Education, University of London.

DR. B. S. CRITTENDEN is on leave of absence from the Institute during 1969-70 as visiting professor of Philosophy of Education at Cornell University.

DR. R. W. B. JACKSON attended an international conference on Educational Research in Warsaw, Poland, Aug. 29 to Sept. 15.

DR. R. P. McDONALD addressed the annual meeting of the Canadian Psychological Association on "Some Generalizations on the Common Factor Model" at York University, June 4. Dr. McDonald was a visiting research fellow at Educational Testing Service, Princeton, from June 4 to Sept. 1.

DR. K. F. PRUETER attended as Canadian chairman the Fourth International Curriculum Conference in New Paltz, N.Y., Oct. 14-18. Delegates from Great Britain, Canada, and United States were in attendance. Dr. Prueter addressed the West Parry Sound principals and supervisors at Aston Villa, Bracebridge, Sept. 26 and during September he met with directors and superintendents of Education in London, Toronto, Sudbury, Thunder Bay, North Bay, Ottawa, Kitchener and Kingston. He also attended the conference with OISE regional field development personnel at the Skyline Hotel, Sept. 4-5.

DR. JAN J. LOUBSER attended the Canadian Sociological and Anthropological Association meetings, York University, in June. He chaired a session in Sociology of Education and was elected vice-president of the association. Dr. Loubser attended the American Sociological Association's 64th annual meeting in San Francisco, Sept. 1-4 and was a discussant at the seminar on "The School System and its Milieu". Prof. Loubser also attended the Canadian Sociological and Anthropological Association Regional Conference, Sept. 23-26, in Halifax. He was a discussant at the session on Sociology of Education. These sessions were held in conjunction with the Canadian Educational Association meetings.

MISS DIANA J. IRONSIDE attended the American Society for Information Science Conference in San Francisco, Oct. 1-4.

DR. S. NISHISATO addressed the symposium on the Application of Multivariate Statistical Techniques to Psychological Research at the Canadian Psychological Association annual meeting at York University June 6. His topic was "Structure and Probability Distribution of Dichotomous Response Patterns". Dr. Nishisato also attended the American Psychological Association annual meeting in Washington.

Pharmacy

DR. OLEH HORNYKIEWICZ has been awarded the Research Medal for 1969 by the American Association for Research of Nervous and Mental Disease.

Social Work

DR. ALBERT ROSE, in accordance with the terms of his research on Citizen Participation in Urban Renewal, sponsored by the Centre for Urban and Community Studies and the Central Mortgage and Housing Corporation, went to the United Kingdom and Western Europe last July, visiting officials of the Ministry of Housing and Local Government in London, the Deputy Minister of Housing and senior officials in the government of Denmark in Copenhagen, and senior officials in the Swedish Housing Board in Stockholm. On Sept. 15 Dr. Rose delivered an address to the 50th annual convention of the Ontario Association

of Homes for the Aged, Toronto, on "New Perspectives: The Canadian Society of the Twentieth Century". On Oct. 19-21 he attended the 17th annual conference of the Ontario Association of Housing Authorities in Kingston. He also attended the symposium on "The Growth of Metropolitan Toronto: Processes, Problems and Planning", sponsored by the Department of Geography, on Nov. 7-8, and presented an address to Session 3 of the symposium on "Implications of the Growth of Toronto: Problems and Policy", on Nov. 8.

DR. BENJAMIN SCHLESINGER worked last summer on a study of "Canadians Who Settled in Israel" under a grant from the Centre for International Studies, and also visited all the universities in Israel. On Oct. 23 he spoke to the Zionist Organization of Canada, Immigration Group, on "Settling in Israel as a Canadian". He is currently conducting a seminar on "The Jewish Family", Holy Blossom Temple, for the Jewish Academy for Adult Education. He also participated in a panel in one of the sessions on "Mental Health Workers in Developing Countries", sponsored by the Canadian Mental Health Association, in Montreal, Nov. 11.

DR. A. J. O. FARINA has been appointed to the Advisory Committee for the Recreation Leadership Course, Centennial College. On Oct. 15 Dr. Farina addressed the American Institute of Industrial Engineers, in Toronto, on "Work, Non-Work, and Leisure".

DR. E. S. L. GOVAN represented the School of Social Work at the Alumni Association Dinner, School of Social Service Administration, University of Chicago, Oct. 29, to welcome the new dean of that School, Dr. Harold Richman.

DR. CAMILLE LAMBERT has been appointed a member of the Allocations and Agency Relations Committee, United Community Fund of Greater Toronto; a member of the Program Committee for the 1970 Canadian Conference on Social Welfare; and a member of the Planning Committee, National Consultation on Rehabilitation, sponsored by the Canadian Rehabilitation Council for the Disabled.

DR. FRANCIS BRECHA was guest speaker at a conference celebrating the 25th anniversary of the School of Social Work, Laval University, Nov. 12-13, on the topic "Poverty in the Technological Age". Dr. Brecha was appointed on Nov. 19 to the executive of the Toronto Association of Neighbourhood Services as representative of University Settlement.

DR. LLOYD GRAHAM attended the second annual meeting of the Co-operative Housing Foundation in Winnipeg on Nov. 14 and was elected vice-president of the Board of Directors of the Foundation.

PROF. S. RHINEWINE was a panel discussant on "Implications of the Report on Health and Welfare Needs and Services of the Toronto Jewish Community", sponsored by the Association of Jewish Communal Workers and educators, Nov. 28.

DR. BEN Z. SHAPIRO lectured on "Dynamics of Groups and Group Leadership" to the Women's Auxiliary of the Ontario Medical Association Oct. 20. He also participated in the Nov. 28 panel on Health and Welfare Needs of the Jewish Community of Toronto.

Hygiene

DR. S. B. McIVER presented a paper on "Comparative Studies on the Antennal Sense Organs of Selected Culicine Mosquitoes" on Nov. 24 at the Department of Entomology and Zoology, Iowa State University, Ames. He also presented a similar paper at the annual meeting of the Entomological Society of America, Chicago, Dec. 1-4.

DR. W. HARDING LE RICHE attended the National Health Manpower Conference at Ottawa on Oct. 7. He also delivered a lecture entitled "Is Exercise Good for What Ails You? A Statistical Question", at a seminar arranged by the Toronto Rehabilitation Centre. On Nov. 27 he gave a talk, "The Costs of Medical Care", to the Ontario Medical Association at the Academy of Medicine, Toronto.

DR. T. W. ANDERSON attended a seminar under the auspices of the Scottish Home and Health Department, in Edinburgh, and presented a paper entitled "Research in Ontario on Ischaemic Heart Disease and its Association with Domestic Water Supplies". He also met with many people interested in the same research subject, visiting the University of Edinburgh, School of Hygiene in London, and other centres.

DRS. S. DESSER, A. M. FALLIS and K. A. WRIGHT attended the joint meeting of the American Society of Parasitologists and the American Society of Tropical Medicine and Hygiene, Nov. 3-7, at Washington. Dr.

Desser presented a paper on "The Fine Structure of Merozoites and Resulting Cametocytes of *Leucocytozoon Simondi*" and Dr. Wright gave a paper on "Cytochemistry of the Pellicle of *Trypanosoma brucei* and its Role in Cell Shape". Dr. Fallis was elected vice-president of the American Society of Parasitologists.

DR. R. J. SHEPHARD attended the annual meeting of the Canadian Association of Sports Sciences in Calgary, Oct. 16-17, presenting papers entitled "Response to a Lower Extremity Training Program" (in collaboration with Dr. T. Fried) and "The Prediction of Maximal Oxygen Uptake in Children from Anthropological Data" (in collaboration with Dr. J. Merriman and C. Weese). Dr. Shephard was elected president of CASS for the year 1970-71. Dr. Shephard also attended the Canadian Cardiovascular Society meeting in Quebec City on Oct. 24, presenting with Dr. T. Kavanaugh and others, a paper "Comparison of Exercise and Hypnotherapy in the Rehabilitation of Patients Following Myocardial Infarction: A Preliminary Report". On Nov. 8, he attended a seminar on "Exercise for the Cardiac Patient—Pros and Cons" organized by the Toronto Rehabilitation Centre, presenting a paper on "The Scope of Physical Exercise in Cardiac Disease" and giving a demonstration of equipment used to monitor, test and evaluate exercise groups.

Dr. Shephard attended the 7th annual Symposium on the Medical Aspects of Sports Injuries organized by the Canadian Orthopaedic Association in Montreal on Nov. 29, serving as chairman of the panel discussing research facts about fitness, conditioning and fatigue in the athlete. He also attended the meeting of the American Association for the Advancement of Science in Boston, Dec. 30, where he contributed a paper on "Community Studies of Working Capacity in School Children" to a symposium on the Human Adaptability Project of the International Biological Program.

PROF. G. H. BEATON participated in an Expert Group meeting on Nutrition in Pregnancy and Lactation with special reference to family spacing, held by the Pan American Health Organization in Washington, Oct. 23-25. In November Prof. Beaton visited the nutrition research laboratories of NAMRU-3 in Cairo, Egypt, where he presented a seminar on "Recent Studies on Vitamin A". He planned to continue to Geneva, Switzerland, to serve as a continuing consultant to the World Health Organization in the preparation of a "Manual on Nutrition in Preventive Medicine in Developing Countries". Dr. Beaton has recently been reappointed to an additional five-year term as a member of the World Health Organization Expert Advisory Panel on Nutrition.

DR. A. J. RHODES, who recently announced that he would be retiring from his combined posts of Director of the School of Hygiene and Head of the Department of Microbiology, School of Hygiene, has accepted an appointment with the Laboratory Services Branch, Ontario Department of Health, with the title of Associate Medical Director. Dr. Rhodes assumed this position on a part-time basis Jan. 1, and will be on a full-time basis May 1. Dr. Rhodes hopes to continue his association with the School of Hygiene as a professor of Microbiology, but on a part-time basis rather than a full-time basis as previously announced.

Business

PROF. J. H. G. CRISPO attended the National Tripartite Conference in Honour of the 50th Anniversary of the International Labour Organization in Ottawa Oct. 26-29. Prof. Crispo delivered the keynote address to the Founding Convention of the Ontario Association of Education Officials in Niagara Falls, Nov. 3, on "Collective Bargaining in the Public School System". He addressed the Professional Institute of the Public Service of Canada on "Collective Bargaining in the Public Service" in Ottawa on Nov. 20 and two faculty-student seminars in industrial relations at Laval University on Nov. 26 and 27. Prof. Crispo participated in a panel discussion at Osgoode Hall Law School, York University, on "Picketing and Boycotting" on Nov. 28, and addressed the annual banquet of the Transportation Club of Toronto on "Collective Bargaining and Public Policy" on Dec. 4.

PROF. R. E. VOSBURCH spoke to the Financial Executives Institute, Dec. 11, on "The Changing Base for Business Education".

Aerospace Studies

DRS. I. I. CLASS, J. B. FRENCH, and M. BRISTOW, and M. DASCHUK attended the APS Fluid Dynamics Division meetings at Norman, Okla., Nov. 24-26. Dr. Class gave an invited lecture on "Explosive-Driven Implosions in Hypervelocity-Launcher and Shock Tube Research"; Dr. French gave

an invited lecture on "Simulation of Satellite Aerodynamics Using Molecular Beams"; Dr. Bristow gave a contributed paper on "Experimental Determination of the Polarizability for Singly Ionized Argon"; and Mr. Daschuk gave a contributed paper on "Measurement of Unburned Gas Velocities in Laminar and Moderately Turbulent Open Burner Flames Using a Laser Doppler Anemometer". Dr. Class was also chairman of the session on "High-Speed Flows".

O. IGRA presented a paper on "Non-equilibrium expansion of Ionized Argon", before the Eastern Section of the Combustion Institute on Nonequilibrium Processes in Combustion at Morgantown, W. Va. He also visited Dr. D. R. WHITE, at General Electric Laboratories, Schenectady, and Prof. J. P. APPLETON, Department of Mechanical Engineering, MIT, in order to discuss current research on nonequilibrium ionized argon flows.

As part of a feasibility study that UTIAS is undertaking for the National Research Council to establish the nature and scope of the research program required in Canada to fully develop Air Cushion Vehicles, Dr. P. A. SULLIVAN visited Great Britain and France during the period Sept. 22 to Oct. 21 to examine Hovercraft research and development activities in these countries. Dr. Sullivan's visits included a tour of government establishments such as the National Physical Laboratory, investigation of university activities, and inspection of industrial efforts in such companies as the British Hovercraft Corporation, Vosper-Thornycroft and Cushion Craft Limited. In France Dr. Sullivan visited Vertin et Cie and inspected their Aerotrain developments and was given a demonstration on the SEDAM N300 naviplane which is currently in use on the Mediterranean. On Nov. 19, Dr. Sullivan chaired a meeting of the Air Cushion Vehicle Subcommittee of the Associate Committee on Aerodynamics to the National Research Council in Ottawa.

DR. S. J. TOWNSEND attended the Sixth International Symposium on Remote Sensing of Environment, Oct. 13-16, at Ann Arbor. On Oct. 16 he attended an invitational symposium on plasma physics at the NASA Lewis Laboratory in Cleveland and on Oct. 17 participated in discussions on engineering problems facing MHD power generation research groups.

W. CZERWINSKI visited the National Aeronautical Establishment Oct. 14-17 in order to discuss designs and construction aspects of the new 8-in. dia. and 24-in. dia. UTIAS Implosion-Driven Hypervelocity Launchers, Mark III.

DR. R. C. TENNYSON attended the fall meeting of the Associate Committee in Aeronautical Structures and Materials of the National Research Council of Canada on Oct. 31 in Ottawa. Discussions were held concerning Canadian research priorities in the area of aerospace structures and materials.

Prof. Glass spent three weeks in the USSR, Aug. 11 to Sept. 2, as a guest of the Siberian Branch, Soviet Academy of Sciences, on the NRC-Academy exchange. While in the USSR Prof. Glass gave a lecture on "Application of Spherical Detonation and Implosion Waves to Generate Hyper-velocities" at the second International Colloquium on Gasdynamics of Explosions and Reactive Systems, Aug. 24-29, at Akademgorodok, Novosibirsk, Siberia, and presented a critical evaluation of papers presented on "Shock-Tube Flows" at the closing session. The colloquium was attended by about 70 scientists and engineers from many parts of the world and about 140 from different research centers in the USSR. He visited the Institute of Mechanics, Moscow University, and the USSR Academy Institute of Problems in Mechanics, Moscow, Aug. 13 and 14, in order to discuss current problems in aerodynamics, gasdynamics, and flows at hypervelocities. He also visited the Institute of Hydrodynamics, Kiev, Ukraine, on Aug. 18, and the University of Tbilisi, Georgia, on Aug. 21 where he discussed mutual research problems and the work at our Institute for Aerospace Studies.

Computer Science

PROF. L. MEZEI addressed the Founders Society of the Detroit Institute of Art at a luncheon meeting, Oct. 16, on "Computer Art". He also attended the Computer Animation Committee meetings of the Users of Automatic Information Display Equipment organization in San Diego, Calif., Nov. 2-7, and participated in a Pilot Seminar on the Telecommunications Environment for the federal Department of Communication at Loyola College, Montreal, Nov. 15-16.

PROF. J. N. P. HUME participated in the Council and General Assembly meetings of the International Federation for Information Processing in Prague, Oct. 27-31. He has recently been appointed representative to

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COMING EVENTS

JANUARY

23 FRIDAY

- Ball
Arts and Science Faculty Ball. Supper, dancing, cards. Tickets, \$9 per person, available from Mrs. D. A. Stager (924-4261). Great Hall, Hart House. 7 p.m. to 1 a.m. (University Arts Women's Club)
- Lecture
"The Existence and Reactions of Singlet and Triplet Nitrenium Ions". Prof. P. G. Gassman, Ohio State University, Columbus. Room 158, Lash Miller Chemical Laboratories. 3.30 p.m. (School of Graduate Studies and Department of Chemistry)
- Seminar
"Dark-Field Electron Microscopy: A Direct Look at Macromolecules". Dr. Peter Ottensmeyer, Ontario Cancer Institute. Room 417, Charles H. Best Institute. 4 p.m. (Banting and Best Department of Medical Research)
- Colloquium
"Science in Science Fiction". Prof. Darko Suvin, McGill University. Rhodes Room, Trinity College. 2.10 p.m. (Institute for the History and Philosophy of Science and Technology)

24 SATURDAY

- Lectures
"Inner Frontiers—the Extension of Living Imagination into Spiritual Reality". L. Francis Edmunds, Principal, Emerson College, England. Medical Sciences Auditorium. 8 p.m. (Student Anthroposophic Forum)
- "Studies of Moon Rocks". Prof. David W. Strangway. Convocation Hall. 8.15 p.m. (Royal Canadian Institute)
- Athletics
Basketball. Guelph at Varsity. Hart House. 2 p.m.
Hockey. Cornell at Varsity. Varsity Arena. 8 p.m.

25 SUNDAY

- Music
University of Toronto Concert Band. Conductors, Robert A. Rosevear, Herbert C. Mueller. MacMillan Theatre, Edward Johnson Building. 3 p.m. No admission charge. (Faculty of Music)
- Menotti's "The Telephone" and Poulenc's "La Voix Humaine". James Colbeck production. Scarborough College. Admission free. 3.45 p.m.

26 MONDAY

- Music
Recital, Louis-Philippe Pelletier, piano. Concert Hall, Edward Johnson Building. 1 p.m. Free. (Faculty of Music)

27 TUESDAY

- Lectures
"The Question of Slavery in the Ancient Near East". Prof. Ignace J. Gelb, Assyriology and Linguistics, Oriental Institute, University of Chicago. Room 138, U.C. 4.10 p.m. (Near Eastern Studies, U.C.)
- "Great Dane of Destiny: Soren Kierkegaard To-Day". Prof. D. V. Wade. Lecture Hall, Academic Building, Victoria University. 4.30 p.m. (Victoria College Public Lectures 1970)
- "Controlled Treatment Study of Patients with Transient Ischaemic Attacks and Cervical Carotid Lesions". Dr. Wm. Fields, Professor of Neurology, University of Texas. Osler Hall, Academy of Medicine. 5 p.m. (Toronto Neurological Society)
- "The 'Sigma 5' in the Division of Medical Computing". A. Heyworth. Room 417, Charles H. Best Institute. 12.30 p.m. (Banting and Best Department of Medical Research)
- "Insect Pheromones and Their Significance in Studies on Evolution and Control of Insects". Dr. Wendel Roelofs, New York State Agricultural Experiment Stations, Cornell University, Geneva, N.Y. Room 432, Ramsay Wright Zoological Laboratories. 4 p.m. (Department of Zoology)

28 WEDNESDAY

- Lectures
"Acetylcholine Turnover at Nerve Endings". Dr. F. C. MacIntosh, Department of Physiology, McGill University. Room 4171, Medical Sciences Building. 4 p.m. (School of Graduate Studies and Department of Pharmacology)
- "Facts, Figures, Perceptions and Myths—Ways of Describing and Understanding Crime". Dr. J. W. Mohr. Room 3153, Medical Sciences Building. 7.30 p.m. (Centre of Criminology)
- Seminars
"The Sequential Reconstruction of Proto-Akkadian". Prof. Ignace J. Gelb. Croft Chapter House, U.C. 3.10 p.m. (Near Eastern Studies, U.C.)
- "A New Reflex for Stimulation of Canine Gastric Secretion". Dr. R. Preshaw. Room 3227, Medical Sciences Building. 4 p.m. (Department of Physiology)
- Tours
Noon—first floor; 1 p.m.—second floor; 2 p.m.—third floor. ROM. Free.

29 THURSDAY

- Lectures
"The Soviet Style of War". Prof. Michael Cherniavsky, State University of New York at Albany. Room 2118, Sidney Smith Hall. 4 p.m. (Department of History, Centre for Russian and East European Studies and School of Graduate Studies)
- "Finalism Revisited" series. "Evolution, Teleology and Theology". Prof. Etienne Gilson. Carr Hall, St. Michael's College. 4.10 p.m. (Pontifical Institute of Mediaeval Studies)
- Seminar
"Pollution Problems". Dr. John Van Loon. Room 3227, Medical Sciences Building. 4 p.m. (Department of Physiology)
- Meeting
Inaugural meeting to discuss formation of Connective Tissue Club. Room 3268, Medical Sciences Building. 5 p.m. (See article on page 2)
- Music
University of Toronto Concert Choir. Concert Hall, Edward Johnson Building. 2 p.m. Free. (Faculty of Music)

30 FRIDAY

- Lecture
"Photolytic Production and Reactions of Electronically Excited Atoms and Molecules". Prof. Karl H. Welge, York University. Room 158, Lash Miller Chemical Laboratories. 4 p.m. (School of Graduate Studies and Department of Chemistry)
- Athletics
Hockey. Loyola at Varsity. Varsity Arena. 8 p.m.

31 SATURDAY

- Open House
Faculty of Pharmacy, south-east corner Huron and Russell Streets. Demonstrations and Displays. Refreshments. Noon to 6 p.m. (Undergraduate Pharmaceutical Society)
- Lecture
"Radio Astronomy — A Changing View of the Universe". Dr. David E. Hogg, National Radio Astronomy Observatory, Charlottesville, Va. Convocation Hall. 8.15 p.m. (Royal Canadian Institute)

FEBRUARY

1 SUNDAY

- Music
St. George's Choristers, conductor — Lloyd Bradshaw. Scarborough College. 3.45 p.m. Free.
- Orford String Quartet. Andrew Dawes, Kenneth Perkins, violins; Terence Helmer, viola; Marcel St-Cyr, cello. Concert Hall, Edward Johnson Building. 8.30 p.m. Free. (Faculty of Music)

2 MONDAY

- Lectures
"Life in England, Mayhew and mayhem". First in a series of lectures, "The Great Decade, 1850-1859". Dr. W. E. Swinton. Room 2117, Sidney Smith Hall. 5 p.m. (Varsity Fund)
- "Our Body — The Instrument". Charlotte De Neve. Concert Hall, Edward Johnson Building. 1 p.m. Free. (Faculty of Music)

3 TUESDAY

- Lectures
"The Religious Thought of the Italian Humanists and the Reformers: Anticipation or Autonomy?" Prof. C. Trinkaus, Department of History, Sarah Lawrence College. Lecture Hall, Academic Building, Victoria University. 4.30 p.m. (Victoria College Public Lectures 1970)
- "The Great Surgeon-Naturalists". Dr. W. E. Swinton. Osler Hall, Academy of Medicine. 8.30 p.m.
- Seminars
"In Quest of the Illusive Monarch Butterfly". Dr. Fred Urquhart. Room 432, Ramsay Wright Zoological Laboratories. 4 p.m. (Department of Zoology)
- "The Minimum Energy Requirement for Human Vision". Dr. P. Hallett. Room 2172, Medical Sciences Building. 4 p.m. (School of Graduate Studies and Department of Physiology)

4 WEDNESDAY

- Seminar
"The Dignity of Man in the Italian Renaissance from Petrarch to Pico". Prof. Charles Trinkaus. Upper Library, Massey College. 4 p.m. (Department of History, Centre for Reformation and Renaissance Studies of Victoria University and School of Graduate Studies)
- Athletics
Hockey. Waterloo at Varsity. Varsity Arena. 8 p.m.

5 THURSDAY

- Lecture
"Roles, Honesty and 'Truth' in Henry James". Prof. Peter Dyson. West Hall, University College. 4.10 p.m. (University College Public Lectures 1969-70)
- Music
Special Events Series. Nicanor Zabaleta, harp. Concert Hall, Edward Johnson Building. 8.30 p.m. Single ticket \$3, student \$2. (Faculty of Music)

6 FRIDAY

- Lecture
"The Visual Impact of the Gothic Cathedral". Prof. John F. Fitchen III, Department of Fine Arts, Colgate University, Hamilton, N.Y. Room 1069, Sidney Smith Hall. 4 p.m. (Centre for Medieval Studies and School of Graduate Studies)
- Athletics
Hockey. Western at Varsity. Varsity Arena. 8 p.m.

7 SATURDAY

- Lecture
"Origin and Cycles in the Emergence of the Family of Man (Hominidae)". Prof. Elwyn L. Simons, Department of Geology and Geophysics; Director of the Division of Vertebrate Palaeontology, Peabody Museum, Yale University. Convocation Hall. 8.15 p.m. (Royal Canadian Institute)
- Athletics
Basketball. Windsor at Varsity. Hart House. 2 p.m.

Graduate Council plans discussion of future growth of School

Summary of minutes of the Council of the School of Graduate Studies, December 16, 1969:

Minutes

Council approved the minutes of the meeting of November 18, 1969.

Business rising from the minutes

In order to achieve more consistency between the Divisions regarding admission of students with Indian and Pakistani degrees, a decanal committee has been set up under the chairmanship of Prof. Israel to consider the general problem of comparative standards of preparation, and to recommend suitable guidelines for admission of such students.

Dean's report

i. SGS Statistics

a. Comparison between enrolment at December 1, 1969 and 1968, showed the following increases in the full-time category: Division I 19.2%, Division II (excluding Educational Theory) 24.5%, Division III 9.8%, Division IV 13.9%, Educational Theory 23.5%. The figures for December 1, 1969, are distorted by the inclusion of students who graduated at the December 5 Convocation (graduation in earlier years took place before the December 1 count). The summer count will show a comparable distortion in the opposite direction, since it will be taken on July 1, after Spring graduation, instead of June 1 as in earlier years.

b. A synoptic historical comparison of enrolment at December 1 1964-69 showed the following increase (full-time equivalent) in each year: 1964: 19.2%, 1965: 21.7%, 1966: 24.4%, 1967: 21.0%, 1968: 6.3%, 1969: 19.1%.

c. Analysis of enrolment by citizenship status: figures at December 1, 1969 showed the following changes in the percentages of the whole, compared with figures at May 31, 1969: Canadian —1, Landed Immigrants +5.1, USA —1.7, UK —.5, Europe —.2, Asia —2.1, Africa —.2, others —.4.

d. A breakdown of degrees awarded for the academic years 1964-65 to 1968-69 inclusive showed that the annual increase in graduations corresponds

roughly to the increase in enrolment: 1964/65: 17.9%, 1965/66: 23.6%, 1966/67: 24.7%, 1967/68: 10.5%, 1968/69: 28.3%. A breakdown of degrees awarded at the Fall Convocations 1969, 1968, and 1967 was also provided.

It has been suggested that in view of the lack of a firm policy governing the growth of the University and the Graduate School, Council itself might now give greater attention to the planned future of the School. It was agreed that the agenda for the next meeting would include discussion of the need for Council to take some initiative in proposing the ultimate size and shape of the graduate component of this University.

ii. Graduate Student Support:

a. OGF's: A detailed report on Ontario Graduate Fellowships for 1969-70 showed that the number of fellowships held at November 28, 1969 equalled the University's quota of 964. Comparison with figures for 1968-69 shows that despite a reduction of 169 in quota, there is an actual increase of 45 in the number of fellowships held.

b. School of Graduate Studies Awards: Very little increase has been made in the total amount (\$538,000 for 1969-70) allocated to these awards. The number of awards (302) remains the same as last year.

Reports of Divisions

Council approved a recommendation from Division II, that Educational Theory be added to the list of departments which Council has exempted from the requirement of an outside minor for a Ph.D. This exemption is made possible by the wide variety of advanced courses offered in the Department of Educational Theory, but the Department appreciates the value to students of contact with outside departments, and intends to continue its practice of directing them, when advisable, towards outside work in the University departments.

The whole concept of the outside minor is to be brought for discussion at a future meeting.

There was nothing to report from Divisions I, III, and IV.

The Implementation and Programming Committee for the Campbell Report

Pursuant to the statement of President Bissell on October 1st, 1969, this Committee has been appointed "to initiate discussion, to formulate recommendations, and to facilitate implementation" of the Report of the Presidential Advisory Committee on Disciplinary Procedures (the "Campbell Report").

Under its mandate, the Committee invites all members of the University community, alumni and other interested persons, to make oral and/or written submissions to it on any aspect of the Campbell Report.

Notification of the intention to make an oral submission should be made to the Secretary of the Committee no later than February 1st, 1970 and the submissions will be scheduled for hearing before the Committee during the month of February.

Written submissions should be forwarded to the Secretary by February 15th, 1970 addressed to:

The Secretary,
The Campbell Implementation and Programming Committee,
Office of the Vice-President and Registrar,
Simcoe Hall,
University of Toronto,
Toronto.

Telephone 928-2182
928-8794

Structural Engineering Conference to be held here during February

Encouraged by the overwhelming success of the first Structural Engineering Conference held in 1968, the Canadian Steel Industries Construction Council and the Department of Civil Engineering, U. of T. recently announced their joint sponsorship of a second symposium, The Canadian Structural Engineering Conference-1970, to be held in Convocation Hall, Feb. 16 & 17, 1970.

"The response to our first Conference, which was attended by nearly 700 delegates from across Canada and from the United States, clearly indicated the need for a prestige professional conference devoted exclusively to structural engineering and design technology. The program of the 1970 Conference will again be highlighted by papers by internationally-known experts and will be open to registrants from the engineering, architectural, educational and allied professions" R. G. Johnson, Council chairman, said.

Speaking on behalf of the University, Dr. T. C. Kenney, chairman of the Department of Civil Engineering, said "the Department is pleased to be associated

with this Conference in the role of co-sponsor and we are looking forward to it being a great success".

Palmer E. Savage, Vice-President, Engineering, Dominion Bridge Co. Ltd., Montreal, who was conference chairman in 1968, will again act as chairman for the second conference. Assisting Mr. Savage on the Conference Committee will be D. K. Turner, CSICC, Toronto (conference co-ordinator); Dr. D. J. L. Kennedy, U. of T. (chairman, Papers Committee); A. J. P. LaPrairie, Vice-President, James United Steel Ltd. (publicity adviser); G. K. Laidlaw, Steel Company of Canada, Ltd. (arrangements adviser); and Prof. K. A. Selby, U. of T. (University liaison).

The Canadian Steel Industries Construction Council is an industry-wide association representing Canada's major steel mills and the Canadian Institute of Steel Construction, the Canadian Sheet Steel Building Institute, the Corrugated Steel Pipe Institute, and the Canadian Fasteners Institute. The Canadian Welding Bureau is affiliated with the Council.

Ph.D. Orals

All members of the Graduate Faculty have the right to attend Ph.D. oral examinations.

Friday, January 23

Frederic Maxwell Schroeder, Department of Classical Studies. "The Doctrine of Presence in the Philosophy of Plotinus". Thesis supervisor: Prof. J. Rist. Room 201, 65 St. George Street, 2 p.m.

Monday, January 26

O. W. Gerus, Department of History. "The Reformed State Council, 1905-1917: A Phase in Russian Constitutionalism". Thesis supervisors: Profs. H. L. Dyck and R. H. McNeal. Room 201, 65 St. George Street, 1.30 p.m.

Thursday, January 29

Murray Gordon Johnson, Department of

Zoology. "Production, Energy Flow and Structure in Benthic Macroinvertebrate Communities of Lake Ontario". Thesis supervisor: Prof. R. O. Brinkhurst. Room 201, 65 St. George Street, 10 a.m.

Friday, January 30

Christopher A. E. Heppner, Department of English. "The Problem of Form in Blake's Prophecies". Thesis supervisor: Prof. H. N. Frye. Room 201, 65 St. George Street, 2 p.m.

Monday, February 2

T. Tobin, Department of Pharmacology. "Mechanism of the Ouabain Inhibition of the Na-K-ATPase". Thesis supervisor: Prof. A. K. Sen. Room 201, 65 St. George Street, 10 a.m.

EXHIBITIONS

"Focal Forum". Exhibition of prize-winning photographs selected by the Toronto Focal Forum from among the work of its members. Lower Rotunda. To Feb. 9.

"Batiks". Louis Steyn, South Africa's foremost batik artist exhibits more than 50 of his wildlife hangings. Exhibition Hall, ROM. To Feb. 11.

"McLaughlin Planetarium". "The Story of Eclipses". To Apr. 5. Tuesday to Friday, 3.30 and 8 p.m.; Saturday, 11 a.m., 2, 3.30, 5 and 8 p.m.; Sunday, 2, 3.30, 5 and 7.30 p.m. Adults \$1, students 50¢. Children under eight not admitted to the Star Theatre.

Display of Canadian Special Delivery Stamps from 1898 to 1946. Lower Rotunda. ROM. To Feb. 15.

"Building with Wood". Technology and preservation of early Ontario Buildings shown through drawings, artifacts and several examples from the ROM's McRae models of pioneer life. Third floor rotunda, ROM. To Feb. 15.

"Narrative of Discovery". Rare books, pictures, early maps and charts trace the exploration of Canada from the 15th to 19th centuries. Sigmund Samuel Canadiana Building. To March 29.

CPUO asks higher income unit to increase faculty pay by 11.4%

At the annual joint meeting between the Committee of Presidents and the Committee on University Affairs to discuss operating grant requirements in the forthcoming year, the universities recommended an increase of the order of 9 per cent in the value of the basic income unit in 1970-71.

Data gathered by the Research Division of CPUO and presented to CUA showed that the increase in the value of the basic income unit in 1969-70 was not enough to pay increases in faculty salaries. Contrary to preliminary estimates, it was found that there had not been an overall deterioration in the faculty-student ratio. Higher faculty salaries were therefore paid by the universities by budgeting for a deficit in some cases, and by severe cutbacks in the purchase of library books, the provision of support services, and the maintenance of physical plant. The universities pointed out that the pattern of resource allocation in 1969-70 could not be repeated indefinitely without serious damage to the quality of the universities and of the education they provide.

CPUO asked that the value of the unit in 1970-71 be set at a level that would permit an average increase of 11.4 per cent in the bill for faculty salaries. A joint subcommittee representing CPUO and OCUFA had been working through the fall on the development and interpretation of data bearing on academic salaries. Following these consultations, the two parent bodies reached agreement that a number of factors required consideration: compensation for inflation; sharing in the growth in the national

wealth on the basis of the real increase in GNP per capita in 1968; inclusion of provision for improving the salaries of beginning faculty, and of those in the age group 40-55. OCUFA attached higher values to some of these factors and argued for the inclusion of others, but the Committee of Presidents took the general line that arguments for salary increases should be based on hard data as far as possible.

There was a wide-ranging discussion at the joint CPUO-CUA meeting on the alternatives open to the Government and to the universities in the face of projections of soaring costs for higher education. One alternative looked at was a limitation on university enrolments; if available resources were spread too thinly, the attempt to cater to numbers could only be at the expense of quality. Both sides agreed that every effort should be made to maximize efficiency and productivity in the running of the universities provided such efforts did not adversely affect quality. However, the CPUO representatives doubted whether there was enough room for improvement in these areas to make a significant impact.

Innovation in methods of instruction was suggested as one means of achieving economy. Alternative ways of providing a university education were mentioned by representatives of CUA, e.g., the "open university" recently established in the United Kingdom, featuring nationally televised courses and summer seminars. CUA also suggested the possibility of devices which would shift part of the burden of cost of university education from the taxpayer to the beneficiary.

STAFF NOTES

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the IFIP General Assembly for Canada. He also visited the United Nations Computing Research Centre in Bratislava, where he gave a talk on "Scheduling Production in Computers and in Industry", and, on Nov. 12, participated in a panel discussion on "The Quality of Life in the Computerized Society" for the Ottawa Chapter of the Information Processing Society of Canada.

Linguistic Studies

PROF. WILLIAM J. SAMARIN represented the Canadian Linguistic Association at an international conference on socio-linguistics held at the Istituto Luigi Sturzo in Rome, Sept. 15-17. On Oct. 16, he chaired the session on "Language and History" which he organized for the annual meeting of the African Studies Association in Montreal.

PROF. JONATHAN KAYE, and GLYNE PIGGOTT, DAVID JONES and MRS. JEAN ROGERS (graduate students of the Centre), attended the Second Algonkian Conference at Memorial University in St. John's, Nfld., on Aug. 24. Prof. Kaye presented a paper "On the Phonemic Status of Nasal Vowels in Ojibwa". Mr. Piggott gave a paper on "The Intransitive Verb Morphology of Odawa", and Mr. Jones gave one on "Transitive Verb Morphology of Odawa".

The colloquium on Prosodic Feature Analysis, which PROF. PIERRE LÉON has been organizing since last winter, was held on Nov. 14 with an attendance of about 130. Chairman of the morning session was PROF. J. D. GENDRON of Laval University, and the afternoon session chairman was PROF. MARTIN JOOS.

Pontifical Institute of Mediaeval Studies

PROFS. MICHAEL M. SHEEHAN and EDWARD SYNAN, and A. GABEL, attended the Midwest Medieval conference, Nov. 15 at the University of Illinois in Urbana-Champaign. Prof. Sheehan gave a lecture entitled "Family and Marriage: the Medieval Development", on Nov. 10 at Waterloo University.

Russian and East European Studies

PROF. H. GORDON SKILLING spoke on the subject of Czechoslovakia, "Reform and Reaction 1968-1969", at the University of Windsor and at Indiana University, Bloomington, Ind., on Dec. 3 and 4, respectively.

Connaught Medical Research Laboratories

DR. J. G. BLACK spoke at a meeting of the Royal Botanical Gardens Association, Hamilton, April 21, on "The Pathogenic Effects of Rabies in Animals and Attempts to Find a Means of Protecting Our Wild Life".

At the XXth International Tuberculosis Conference, held in New York City, Sept. 2-7, DR. S. LANZI participated in a round-table discussion on methods of diagnosing tuberculosis in animals, and presented a paper (co-author, DR. H. HELD) entitled "Why Phenol is Preferable to Chinosol as a Preservative in Tuberculin PPD Solutions". DR. C. O. SIEBENMANN presented a paper (co-author, C. A. BARBARA) entitled "Maintenance of Virulence of *M. tuberculosis* and *M. Kansasi*".

Under the auspices of the Pan American Health Organization, DR. CARLOS CARILLO, chief of the Smallpox Department, National Institute of Health, and associate professor, Department of Microbiology, Peruvian University Cayetano Heredia, in Lima, Peru, visited Connaught Medical Research Laboratories in September to study methods of production and testing of lyophilized smallpox vaccine, as part of the program for the eradication of smallpox in South America.

Also under auspices of the Pan American Health Organization, MISS MARIA ACOSTA, Chief of the Production Department at the National Institute of Hygiene, and Professor of Immunology, University of Mexico, visited the laboratories in December to study methods of producing freeze-dried smallpox vaccine.

As part of the contribution of the United States to the program of Aid for International Development, DR. A. O. LAJA, specialist in charge of the Clinical Laboratories, and associate lecturer at the University of Lagos, Nigeria, also visited CMRL in December to study production of this vaccine.

At a seminar on Contamination Control, organized by the Defence Research Board and Northern Electric Research Development Laboratories, held in Ottawa, Sept. 9, DR. W. ASHFORD gave a paper, co-authored by DR. S. HILLAR, entitled "Production, Distribution, Testing and Maintenance of Pyrogen-free Fluids".

DR. WILLIAM GREGG attended the annual convention of the Ontario Hatchery Association in Toronto, Nov. 7, and gave a paper entitled "The Development of a Tissue Culture Origin Infectious Bronchitis Vaccine".